

Amendments to the Specification:

These amendments are made relative to the substitute specification filed May 3, 2004.

Please replace the paragraph beginning at page 13, line 27, with the following rewritten paragraph:

--~~Figure 13 shows~~ Figures 13A and 13B show a sequence comparison between the 123 kDa telomerase protein subunit of *E. aediculatus* (SEQ ID NO:2) and the 80 kDa polypeptide subunit of *T. thermophila* (SEQ ID NO:52).--

Please replace the paragraph beginning at page 13, line 30, with the following rewritten paragraph:

--~~Figure 14 shows~~ Figures 14A and 14B show a sequence comparison between the 123 kDa telomerase protein subunit of *E. aediculatus* (SEQ ID NO:2) and the 95 kDa telomerase polypeptide of *T. thermophila* (SEQ ID NO:54).--

Please replace the paragraph beginning at page 15, line 2, with the following rewritten paragraph:

--~~Figure 33 is~~ Figures 33A and 33B present a schematic summary of the *tezI*⁺ sequencing experiments.--

Please replace the paragraph beginning at page 15, line 7, with the following rewritten paragraph:

--~~Figure 36~~ Figures 36A and 36B (SEQ ID NOS:58, 118, 121-130) ~~shows~~ show the alignment of the M2 PCR product with *E. aediculatus* p123, *S. cerevisiae*, and *Oxytricha* telomerase protein sequences.--

Please replace the paragraph beginning at page 16, line 4, with the following rewritten paragraph:

--~~Figures 53A-53E~~ Figures 53A-53F provide the nucleic acid (SEQ ID NO:224) and deduced ORF sequence (SEQ ID NO:225) of human telomerase.--